

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P836532

Luminaire Tested: **ARCH3-40-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

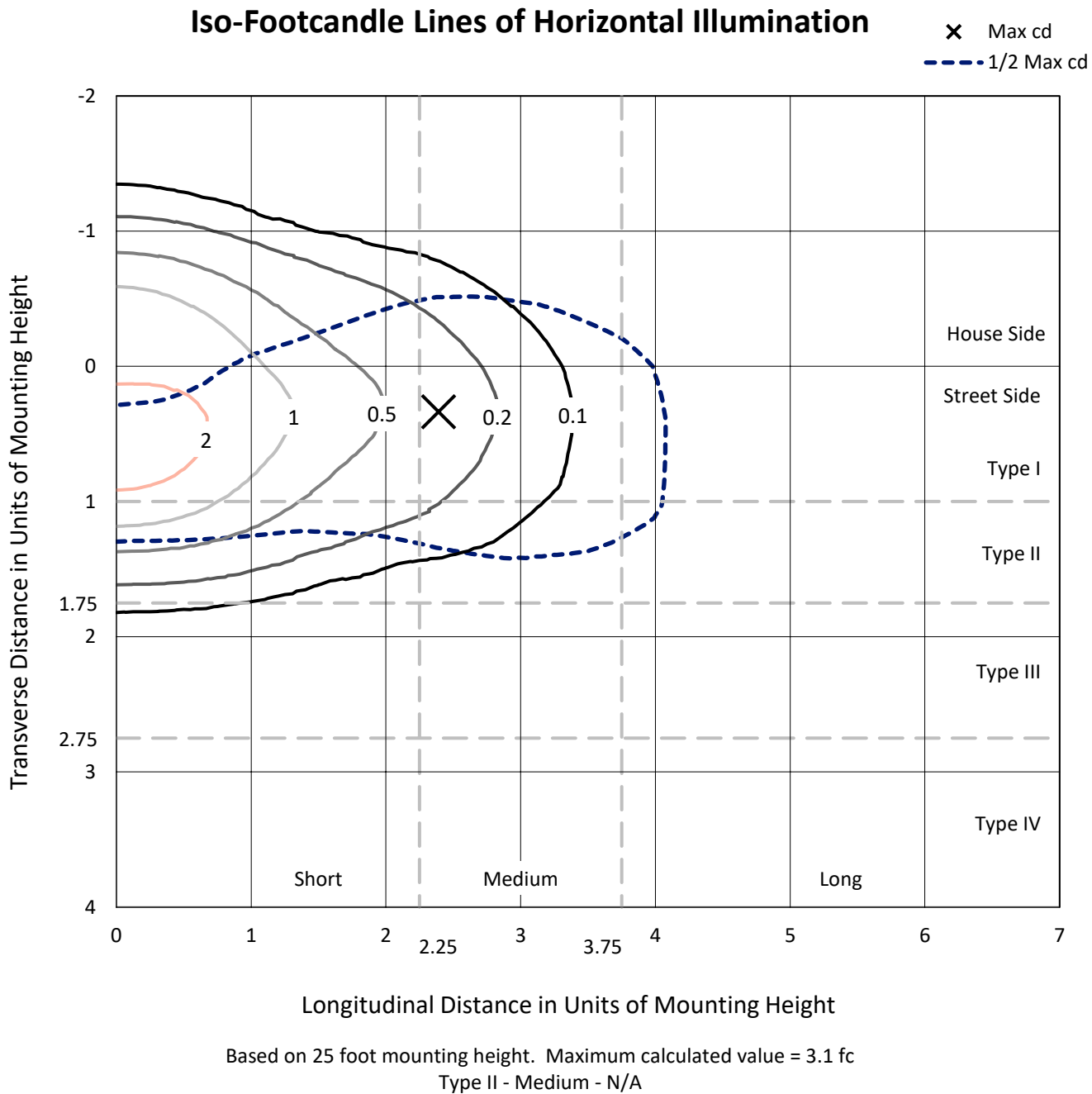
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7052 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

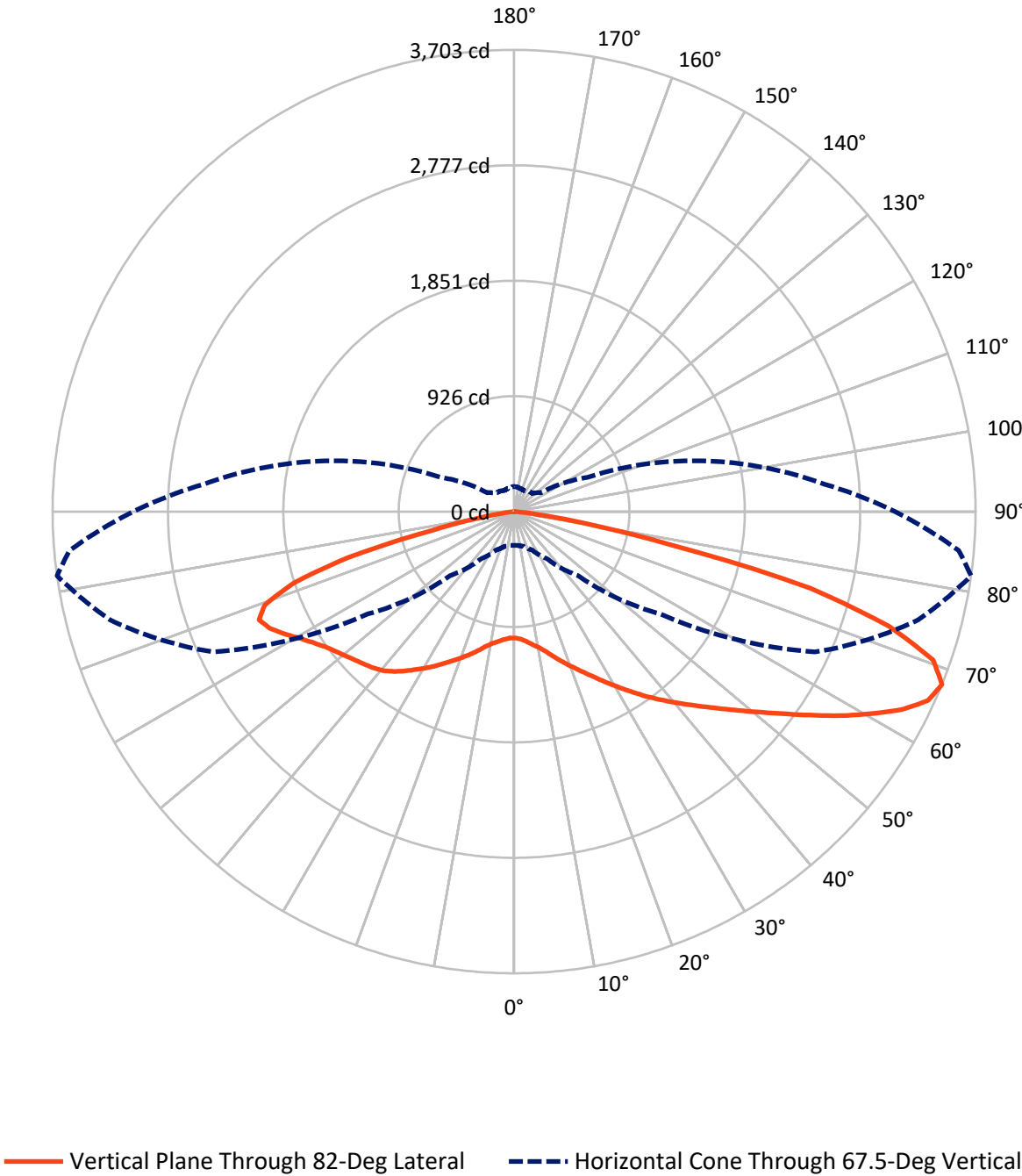


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2147.6	0.0	2147.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4904.4	0.0	4904.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	7052.0	0.0	7052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.5
10°-20°	377.4	5.4
20°-30°	758.4	10.8
30°-40°	1191.4	16.9
40°-50°	1451.3	20.6
50°-60°	1371.3	19.4
60°-70°	1132.4	16.1
70°-80°	616.6	8.7
80°-90°	48.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7052.0	100.0
0°-180°	7052.0	100.0

Coefficient of Utilization



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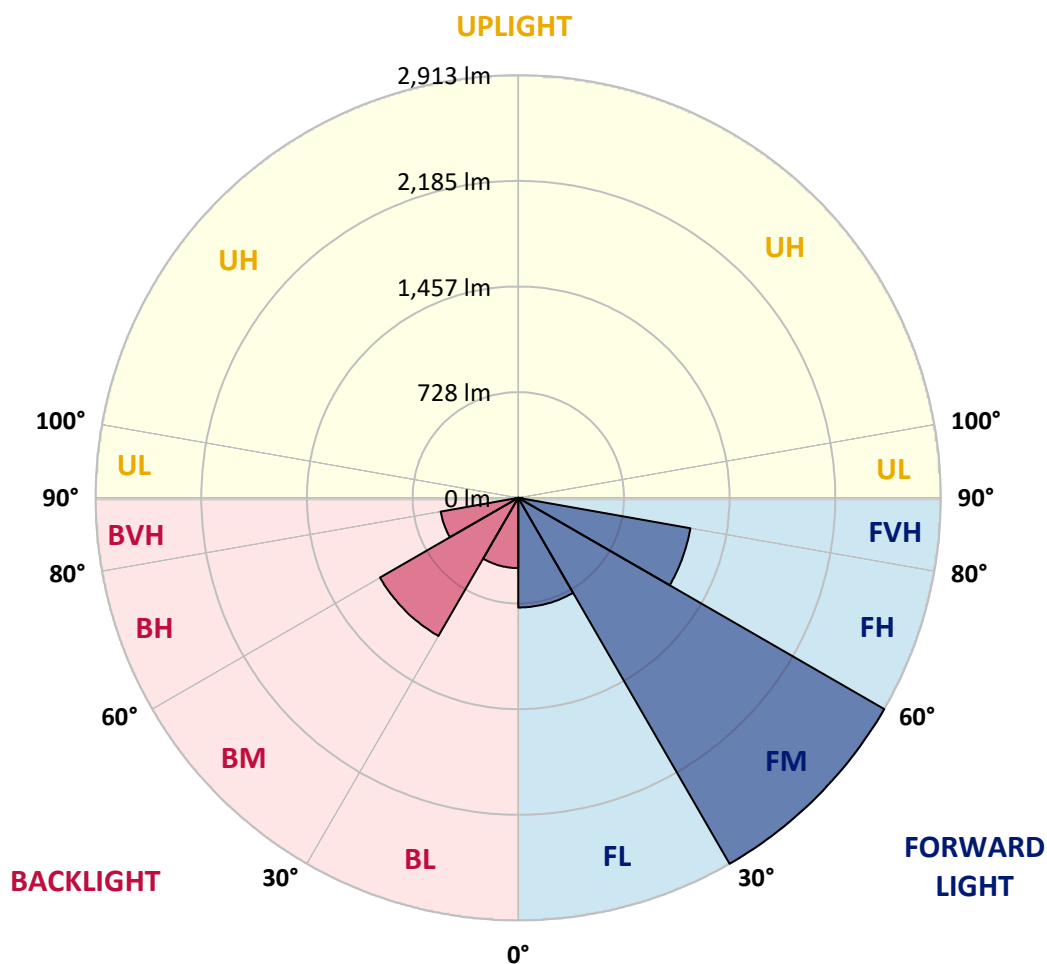
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	756.2	10.7			
FM	(30°-60°)	2913.5	41.3			
FH	(60°-80°)	1205.4	17.1			G1/1800
FVH	(80°-90°)	29.2	0.4			G1/100
BL	(0°-30°)	484.3	6.9	B1/500		
BM	(30°-60°)	1100.5	15.6	B2/2500		
BH	(60°-80°)	543.6	7.7	B2/1000		G2/1000
BVH	(80°-90°)	19.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7
2.5°	1059.8	1059.8	1068.0	1068.0	1060.8	1049.6	1046.5	1034.2	1022.9	1022.9	1024.0
5°	1161.2	1160.1	1166.3	1158.1	1140.7	1118.2	1102.8	1076.2	1053.7	1046.5	1045.5
7.5°	1285.1	1284.0	1287.1	1273.8	1241.0	1204.2	1173.5	1130.5	1093.6	1078.2	1074.1
10°	1423.3	1422.3	1419.2	1396.7	1352.7	1295.3	1249.2	1189.8	1134.5	1110.0	1104.9
12.5°	1582.0	1580.0	1572.8	1540.0	1479.6	1405.9	1339.3	1262.5	1188.8	1155.0	1143.8
15°	1759.2	1756.1	1742.8	1702.8	1622.0	1528.8	1442.8	1344.5	1254.4	1210.3	1195.0
17.5°	1945.5	1945.5	1925.0	1865.7	1775.5	1659.8	1553.3	1428.4	1323.0	1268.7	1250.3
20°	2135.0	2133.9	2108.3	2036.7	1930.2	1797.1	1661.9	1524.7	1393.6	1328.1	1305.6
22.5°	2334.6	2332.6	2300.8	2218.9	2092.0	1941.4	1783.7	1619.9	1471.4	1392.6	1363.9
25°	2564.0	2560.9	2522.0	2421.7	2271.1	2101.2	1921.0	1731.5	1560.5	1464.3	1430.5
27.5°	2807.7	2803.6	2757.5	2640.8	2475.9	2271.1	2072.5	1860.5	1658.8	1544.1	1506.2
30°	3024.8	3021.7	2971.5	2851.7	2662.3	2440.1	2216.9	1989.6	1762.2	1629.1	1582.0
32.5°	3188.6	3188.6	3143.6	3025.8	2829.2	2601.9	2362.3	2111.4	1869.8	1720.3	1665.0
35°	3287.9	3291.0	3252.1	3157.9	2972.6	2754.5	2512.8	2254.8	1984.4	1817.5	1758.1
37.5°	3302.3	3312.5	3290.0	3226.5	3071.9	2881.4	2660.3	2393.0	2103.2	1915.8	1849.3
40°	3235.7	3242.9	3243.9	3219.3	3112.8	2972.6	2790.3	2539.4	2229.2	2019.3	1942.5
42.5°	3102.6	3107.7	3116.9	3124.1	3083.1	3012.5	2889.6	2675.6	2363.3	2124.7	2034.6
45°	2930.6	2929.6	2944.9	2975.6	2973.6	2990.0	2944.9	2799.5	2502.6	2244.5	2137.0
47.5°	2673.6	2668.4	2722.7	2792.3	2827.2	2904.0	2945.9	2896.8	2654.1	2376.6	2253.7
50°	2271.1	2266.0	2384.8	2548.6	2651.0	2767.8	2889.6	2955.2	2812.8	2525.1	2380.7
52.5°	1781.7	1776.6	1927.1	2213.8	2437.0	2607.0	2776.0	2968.5	2963.3	2691.0	2524.1
55°	1325.0	1320.9	1467.3	1777.6	2139.1	2420.6	2636.7	2933.6	3104.6	2881.4	2698.1
57.5°	933.9	931.8	1058.8	1315.8	1756.1	2193.3	2502.6	2866.1	3234.7	3088.3	2894.7
60°	655.3	652.3	744.4	943.1	1328.1	1850.3	2369.4	2776.0	3332.0	3292.0	3103.6
62.5°	441.3	439.3	504.8	670.7	943.1	1424.3	2167.7	2715.5	3387.3	3496.8	3314.6
65°	334.8	333.8	363.5	454.6	667.6	1022.9	1847.2	2708.4	3394.4	3650.4	3493.8
67.5°	270.3	271.3	287.7	340.0	461.8	727.0	1432.5	2663.3	3356.5	3702.6	3580.8
70°	221.2	221.2	228.3	263.2	341.0	490.5	1000.4	2458.5	3251.1	3566.5	3477.4
72.5°	169.0	170.0	192.5	213.0	257.0	344.1	641.0	2034.6	3002.3	3144.6	3077.0
75°	134.1	133.1	146.4	175.1	199.7	245.8	393.2	1459.1	2554.8	2457.5	2414.5
77.5°	96.3	95.2	105.5	130.0	151.5	174.1	234.5	736.2	1389.5	1276.9	1245.1
80°	65.5	63.5	72.7	90.1	100.3	102.4	114.7	282.6	606.2	571.4	564.2
82.5°	33.8	33.8	38.9	51.2	52.2	53.2	51.2	91.1	200.7	187.4	179.2
85°	13.3	13.3	14.3	17.4	17.4	18.4	18.4	23.6	21.5	20.5	19.5
87.5°	1.0	1.0	2.0	2.0	3.1	3.1	3.1	4.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7
2.5°	1021.9	1017.8	1004.5	1001.4	999.4	996.3	997.3	990.2	987.1	988.1	984.0
5°	1040.3	1033.2	1016.8	1009.6	1007.6	1004.5	1007.6	1002.5	997.3	999.4	997.3
7.5°	1065.9	1055.7	1035.2	1028.1	1027.0	1024.0	1028.1	1024.0	1019.9	1021.9	1017.8
10°	1092.6	1079.3	1056.7	1049.6	1049.6	1048.5	1052.6	1046.5	1042.4	1043.4	1041.4
12.5°	1131.5	1114.1	1089.5	1083.4	1080.3	1083.4	1084.4	1076.2	1069.0	1070.0	1067.0
15°	1178.6	1159.1	1132.5	1123.3	1121.2	1120.2	1116.1	1105.9	1096.7	1095.6	1092.6
17.5°	1229.8	1205.2	1173.5	1164.2	1155.0	1152.0	1141.7	1128.4	1114.1	1114.1	1110.0
20°	1278.9	1251.3	1213.4	1200.1	1186.8	1174.5	1157.1	1135.6	1117.1	1114.1	1110.0
22.5°	1332.2	1299.4	1255.4	1235.9	1212.4	1187.8	1158.1	1129.4	1105.9	1100.8	1097.7
25°	1391.6	1350.6	1298.4	1269.7	1231.8	1193.9	1149.9	1113.0	1085.4	1077.2	1075.2
27.5°	1457.1	1407.9	1344.5	1302.5	1247.2	1187.8	1131.5	1087.4	1053.7	1043.4	1040.3
30°	1523.7	1465.3	1386.4	1325.0	1247.2	1168.3	1097.7	1046.5	1007.6	993.2	991.2
32.5°	1590.2	1524.7	1424.3	1337.3	1234.9	1135.6	1053.7	993.2	949.2	931.8	935.9
35°	1670.1	1590.2	1459.1	1342.4	1214.4	1095.6	1003.5	932.8	887.8	872.4	875.5
37.5°	1753.0	1655.7	1486.8	1338.3	1185.7	1050.6	947.2	878.6	822.2	795.6	798.7
40°	1824.7	1715.1	1506.2	1324.0	1148.9	999.4	891.9	801.8	723.9	698.3	695.3
42.5°	1892.3	1759.2	1516.5	1302.5	1106.9	940.0	813.0	697.3	619.5	587.8	588.8
45°	1962.9	1802.2	1512.4	1273.8	1054.7	870.4	711.7	594.9	526.3	497.6	498.7
47.5°	2043.8	1848.2	1508.3	1243.1	991.2	780.3	614.4	504.8	445.4	424.9	422.9
50°	2129.8	1899.4	1503.2	1205.2	920.5	679.9	518.1	420.8	370.7	357.4	354.3
52.5°	2227.1	1954.7	1500.1	1160.1	835.6	573.4	432.1	347.1	313.3	304.1	303.1
55°	2343.8	2019.3	1504.2	1105.9	733.2	473.1	359.4	299.0	276.5	271.3	270.3
57.5°	2486.2	2102.2	1516.5	1042.4	625.6	386.0	306.2	269.3	255.0	250.9	250.9
60°	2640.8	2196.4	1539.0	970.7	518.1	318.5	271.3	245.8	239.6	244.7	244.7
62.5°	2807.7	2307.0	1578.9	883.7	417.8	269.3	243.7	226.3	222.2	232.4	233.5
65°	2962.3	2414.5	1604.5	779.2	331.8	233.5	222.2	206.8	208.9	219.1	218.1
67.5°	3057.5	2503.6	1568.7	648.2	263.2	206.8	199.7	186.4	191.5	199.7	200.7
70°	2999.2	2453.4	1391.6	489.5	205.8	180.2	175.1	166.9	171.0	181.2	185.3
72.5°	2713.5	2197.4	1082.3	330.7	165.9	151.5	153.6	149.5	154.6	163.8	173.0
75°	2202.5	1660.9	726.0	212.0	131.1	129.0	132.1	129.0	131.1	140.3	145.4
77.5°	1149.9	810.0	361.5	132.1	97.3	100.3	105.5	106.5	112.6	114.7	116.7
80°	536.6	364.5	150.5	73.7	64.5	70.7	80.9	81.9	84.0	87.0	88.1
82.5°	175.1	109.6	69.6	39.9	36.9	39.9	52.2	62.5	63.5	69.6	69.6
85°	18.4	11.3	15.4	16.4	14.3	17.4	23.6	22.5	10.2	6.1	6.1
87.5°	5.1	4.1	5.1	5.1	4.1	4.1	3.1	1.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)